

FUEL CELL STACK AND FUEL CELL MODULE

Abstract of Disclosure

A fuel cell stack includes at least one fuel cell unit and a number of interconnects defining at least two openings and including at least one flow field for flowing a reagent. Each opening defines a respective fuel manifold, including at least one each of intake and exhaust fuel manifolds. The fuel cell unit includes an anode, a cathode, and an electrolyte disposed therebetween. The anode is adjacent to and in both electrical connection and fluid communication with one of the interconnects, which has a flow field that guides a fuel flow between the intake and exhaust fuel manifolds. The cathode is adjacent to and in both electrical connection and fluid communication with another interconnect with a flow field that guides an oxidant flow. The fuel cell stack includes a perimeter isolation seal and at least two interior isolation seals for sealing the electrolyte to the respective interconnects.

Figures